

FIRST NAME: \_\_\_\_\_ SURNAME: \_\_\_\_\_

TECHNOLOGY GROUP: \_\_\_\_\_ TUTOR GROUP: \_\_\_\_\_

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## **Autumn Term 2**

### **Design and Technology GCSE: Product Design**

#### **Year 10**

- **Core Technical Principles**
- **Specialist Technical Principles**
- **Designing and Making Principles**

**Name:**

**Group:**

#### **Instructions**

A printed copy should be handed in to your teacher.

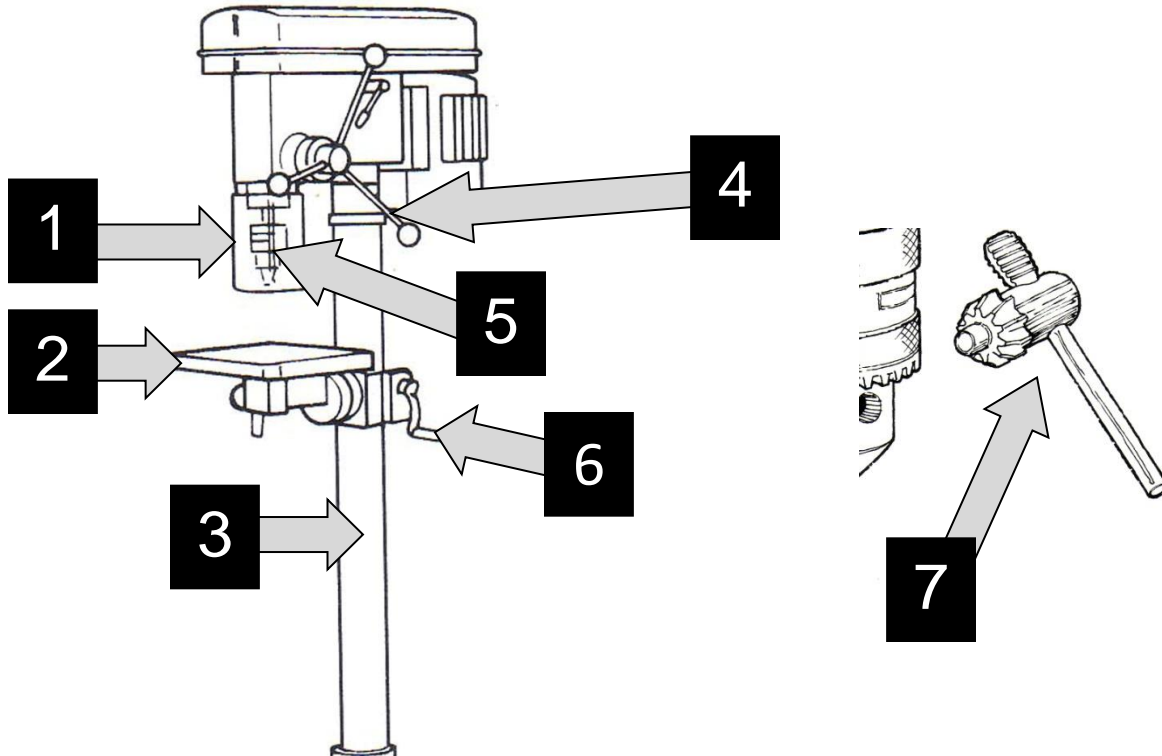
The knowledge required to complete this assignment will be supported in class.

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### Pillar Drill

Please identify the name and purpose of the labelled components of the pillar drill by filling in the table shown below:



No.	Name	Purpose
1		
2		
3		
4		
5		
6		
7		

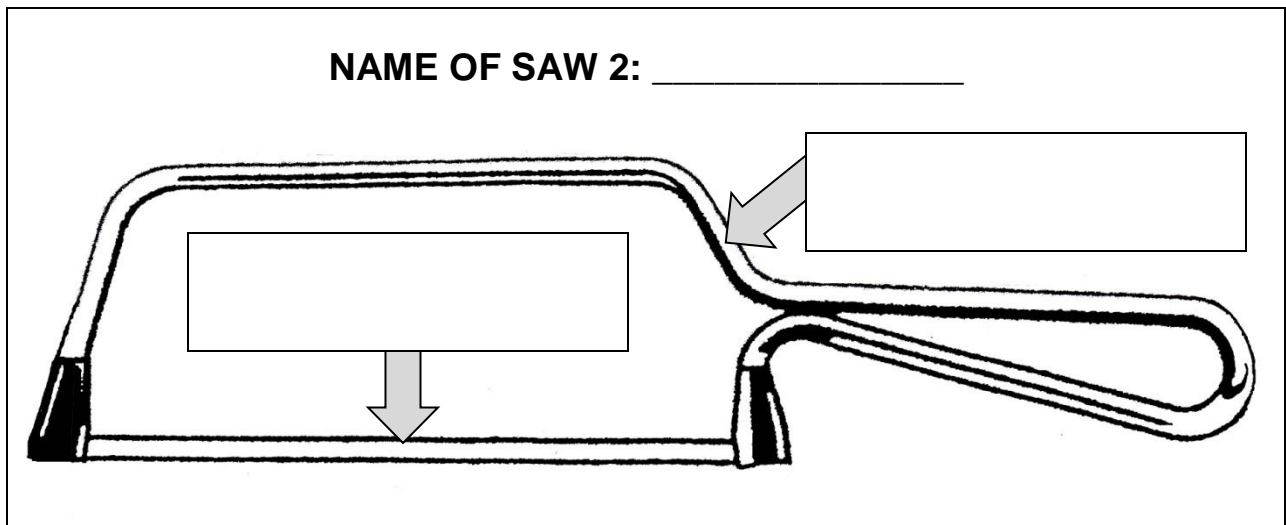
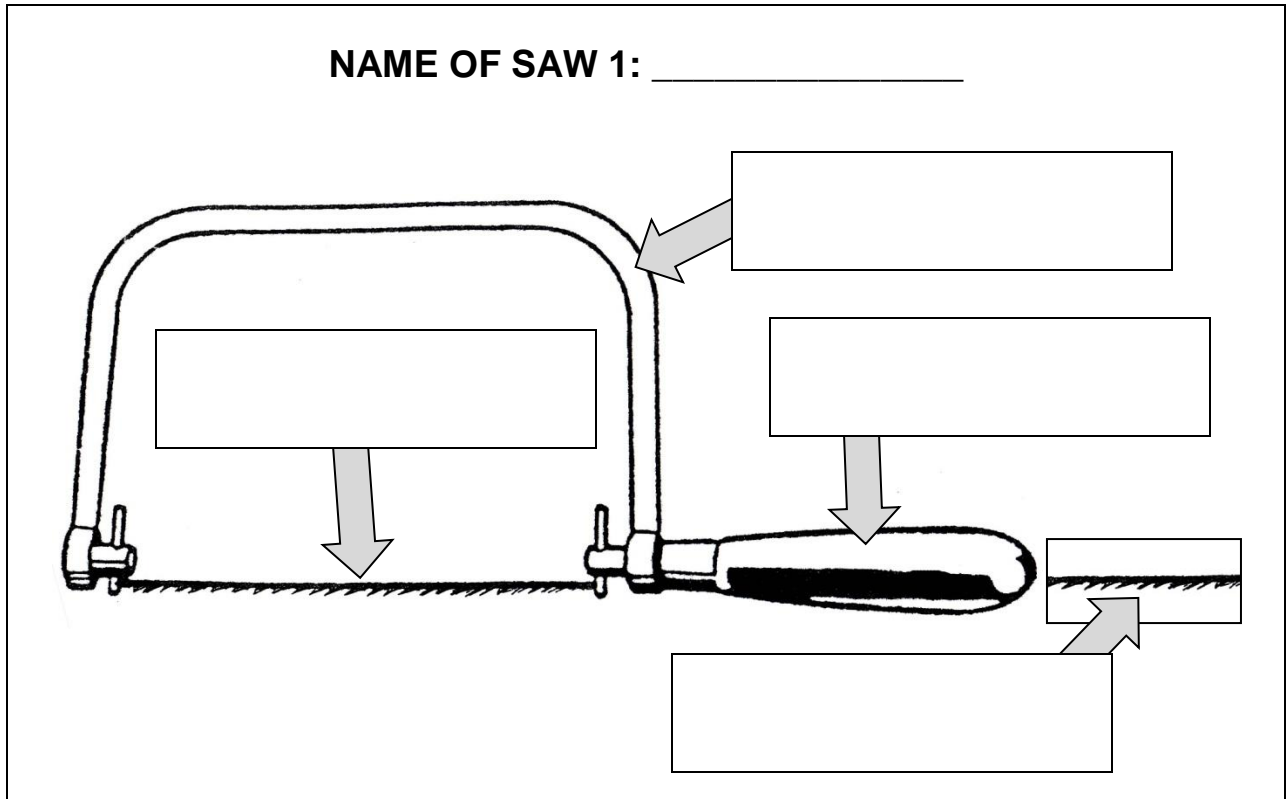
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### Saws

Please identify the following two saws and label their components:



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**Brass Photo Frame Worksheet – Ferrous and Non-Ferrous Metals**

- 1) Please research **FERROUS** and **NON-FERROUS** metals and write down their definitions and their differences in the table shown below:

Definition – What are the two differences?	
<b>Ferrous</b>	
<b>Non-Ferrous</b>	

- 2) Please research the following metals and tick the correct box if they are **FERROUS** or **NON-FERROUS** metals:

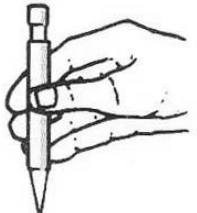
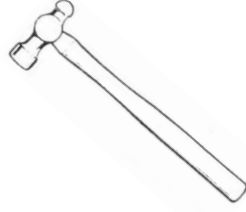
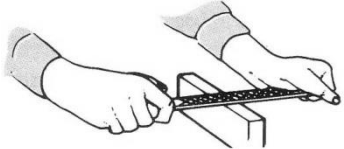
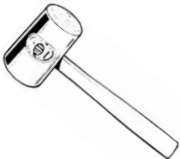

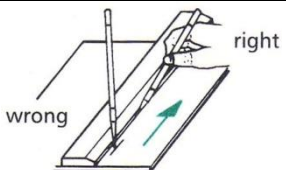
Metal	Ferrous	Non-Ferrous
Stainless Steel	[ ]	[ ]
Copper	[ ]	[ ]
Brass	[ ]	[ ]
Iron	[ ]	[ ]
Aluminium	[ ]	[ ]
Titanium	[ ]	[ ]
Carbon Steel	[ ]	[ ]
Tin	[ ]	[ ]
Lead	[ ]	[ ]

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**Brass Photo Frame Worksheet –**

Please identify the tools shown below which we have used in this brass photo frame project and discuss their purposes:


	<b>Name of tool:</b>
	<b>Purpose of tool:</b>
	<b>Name of tool:</b>
	<b>Purpose of tool:</b>
	<b>Name of tool:</b>
	<b>Purpose of tool:</b>
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**Pewter Cast Jewellery Worksheet – Health & Safety**

**Task)** Identify the following health and safety signs/symbols/notices: (*don't worry if you don't know them all*)

**Q1)** When queuing up for a machine why is it important not to distract the person using it?

**Q2)** Why are ties a potential danger, especially when using a machine?

**Q3)** If a pupil has long hair what should he/she do when using a machine?

**Q4)** Why is it important to stop and listen to the teacher when asked to do so?

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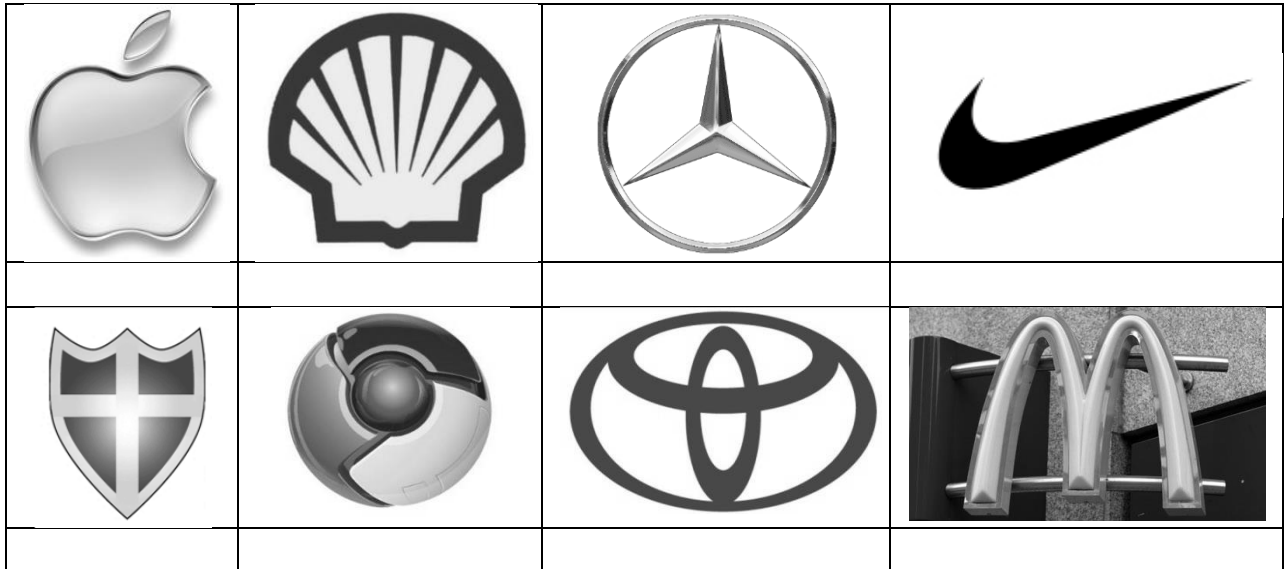
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**Pewter Cast Jewellery Worksheet – Jewellery Company Logo Design**

**Question 1)** Before you can design a logo you need to know who your **target market** is?

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**Question 2)** Please **identify** the name of the organisation this logo represents:



Logos are an amazing tool used to represent the **corporate identity** or **brand** of company or product in a visual way that consumers can easily remember. The power of logos is shown from the activity you did in question 2 where you were able to identify a brand from a simple set of shapes and colours.

**Question 3)** Using the boxes below come up with 2 design logos (it can include text) that will appeal to **your target market** and go on the packaging of your pewter cast jewellery.

<p><b><u>Logo 1</u></b></p>	<p><b><u>Logo 2:</u></b></p>
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